

We claim:

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1. A monolayer package for oxygen sensitive products comprised of an oxygen scavenging composition wherein the monolayer package is appropriate for direct contact with the oxygen sensitive products.

5 2. The monolayer package of claim 1 further comprising a plastic packaging material appropriate for direct contact with the oxygen sensitive products.

3. The monolayer package of claim 2 wherein the plastic packaging material is PET or PEN.

10 4. The monolayer package of claim 1 wherein the oxygen scavenging composition is comprised of a modified copolymer and a transition metal catalyst.

5. The monolayer package of claim 4 wherein the modified copolymer is comprised of predominantly polycondensate segments and a lesser weight percent of oxygen scavenging moiety segments.

15 6. The monolayer package of claim 5 wherein the modified copolymer contains from about 0.05 wt % to about 20 wt % oxygen scavenging moiety segments.

7. The monolayer package of claim 6 wherein the oxygen scavenging moiety segments are comprised of polyolefin oligomers having a molecular weight in the range of 100 to 10,000.

20 8. The monolayer package of claim 7 wherein the oxygen scavenging moiety segments are comprised of unhydrogenated polybutadiene having a molecular weight in the range of 1,000 to 3,000.

9. The monolayer package of claim 5 wherein the polycondensate segments are comprised of PET or PET copolymer.

25 10. The monolayer package of claim 1 wherein the migration level of the components of oxygen scavenging composition from the package to the oxygen sensitive products is less than 50 ppb.

30 11. A monolayer package for oxygen sensitive products consisting essentially of a polyester packaging material and an oxygen scavenging composition, wherein the oxygen scavenging composition is comprised of a modified copolymer

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and a transition metal catalyst wherein the migration level of the components of the oxygen scavenging composition from the package to the oxygen sensitive products is less than 50 ppb.

5 12. The monolayer package of claim 11 wherein the modified copolymer is comprised of about 80-99.95 wt % PET segments and about 0.05 wt% to 20 wt % unhydrogenated polybutadiene segments.

13. The monolayer package of claim 1 or 11 comprising 0.02 to 10 wt % modified copolymer and 90 to 99.8 wt % unmodified polyester.

14. The monolayer package of claim 1 further comprising a coating.

10 15. The monolayer package of claim 1 wherein the monolayer package is suitable for recycle with conventional polyester bottles.

16. The monolayer package of claim 1 wherein the monolayer package has a haze value less than about 8%.

17. The monolayer package of claim 11 further comprising a coating.

15 18. The monolayer package of claim 11 wherein the monolayer package is suitable for recycle with conventional polyester bottles.

19. The monolayer package of claim 11 wherein the monolayer package has a haze value less than about 8%.

20 20. A monolayer package for oxygen sensitive products consisting essentially of a polyester packaging material and an oxygen scavenging composition, wherein the oxygen scavenging composition is comprised of a modified copolymer and a transition metal catalyst, wherein the modified copolymer is comprised of 5 to 10 wt % unhydrogenated polybutadiene segments and 90 to 95 wt % polycondensate segments wherein the migration level of the components of the oxygen scavenging
25 composition from the package to the oxygen sensitive products is less than 50 ppb, and wherein the monolayer package has a haze value less than about 3%.

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